

ABSTRACT OF THE DISCLOSURE



Arrangement for the optical detection of light radiation which is  
excited and/or backscattered in a specimen in a microscope, wherein the specimen  
illumination is focused in and/or in the vicinity of a pupil plane of the beam path  
between the specimen plane and detection plane and apparatus is provided in this  
plane for spatially separating the illumination light from the detection light, wherein  
fluorescent light and/or luminescent light and/or phosphorescent light and/or  
diffusely scattered illumination light coming from the specimen is detected, and the  
apparatus for spatial separation comprises at least a reflecting first portion and at  
least a transmitting second portion, wherein the reflecting portion serves to couple in  
the illumination light and the transmitting portion serves to pass the detection light  
in the detection direction or the transmitting portion serves to couple in the  
illumination light and the reflecting portion serves to couple out the detection light.



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